

SEQUENCE LISTING

<110> NeXstar Pharmaceuticals, Inc.

<120> High Affinity TGFBeta Nucleic Acid Ligands and Inhibitors

<130> NEX87/PCT

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<150> 09/046,247

<151> 1998-03-23

<150> 08/458,424

<151> 1995-06-02

<150> 07/714,131

<151> 1991-06-10

<150> 07/931,473

<151> 1992-08-17

<150> 07/964,624

<151> 1992-10-21

<150> 08/117,991

<151> 1993-09-08

<150> 07/536,428

<151> 1990-06-11

<150> 09/363,939

<151> 1999-07-29

<150> 08/434,465

<151> 1995-05-04

<160> 216

<170> PatentIn Ver. 2.0

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<223> Feature N at positions 17-56 is A, C, G or T.

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<222> (1)..(88)

<223> Feature N at positions 33-72 is A, C, G or T.

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<223> Feature N at positions 33-72 is A, C, G or T.

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nnnnnnnnnn nngtctgctg agcgggct 88

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<222> (1)..(71)

<223> All pyrimidines are 2'F; feature N at positions
16-55 is A, 2'-FC, G or 2'-FU.

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gggaggacga ugcggnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnncagac 60
gacucgcccg a 71

<210> 7

<211> 65

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<223> Feature N at positions 16-49 is SEQ ID NO: 115 and A, C, G or T.

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<210> 8

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<222> (1)..(82)

<223> Feature N at positions 33-66 is SEQ ID NO: 115 and A, C, G or T.

<400> 8

taatacgact cactataggg aggacgatgc ggnnnnnnnn nnnnnnnnnn nnnnnnnnn 60
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16-49 is SEQ ID NO: 115 and A, 2'-FC, G or 2'-FU.

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ggggacaagc ggacttag 18

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<222> (1)..(12)

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<210> 21

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gacucgcccg g 71

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gacucgcccg a 71

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gacucgcccg g 71

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acucgcccga 70

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acucgcccga 70

<210> 55
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gacucgcccg a 71

<210> 57

<211> 71

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gacucgcccg a 71

<210> 58

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<222> (1)..(71)

<223> All pyrimidines are 2'F.

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<210> 65

<211> 71

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gacucgcccg a 71

<210> 68

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gacucgccccg a 71

<210> 69

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<210> 70

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<210> 71

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acucgcccga 70

<210> 74

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<210> 75

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acucgcccga 70

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gacucgcccg a 71

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gacucgcccg a 71

<210> 84
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acucgcccga 70

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cuucgcccga 70

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gacucgcccg a 71

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<210> 88

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<210> 89

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<210> 90

<211> 56

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<210> 91

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36

<210> 93

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34

<210> 94

<211> 30

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32

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<210> 114

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<210> 115

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34

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<210> 120

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<400> 120

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<210> 121

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<210> 122

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1				5					10					15	

Val	Arg	Gln	Leu	Tyr	Ile	Asp	Phe	Arg	Lys	Asp	Leu	Gly	Trp	Lys	Trp
		20						25					30		

Ile	His	Glu	Pro	Lys	Gly	Tyr	His	Ala	Asn	Phe	Cys	Leu	Gly	Pro	Cys
		35					40						45		

Pro	Tyr	Ile	Trp	Ser	Leu	Asp	Thr	Gln	Tyr	Ser	Lys
	50				55						60

<210> 123

<211> 60

<212> PRT

<213> Artificial Sequence

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Sequence

<400> 123

Ala Leu Asp Ala Ala Tyr Cys Phe Arg Asn Val Gln Asp Asn Cys Cys
 1 5 10 15

Leu Arg Pro Leu Tyr Ile Asp Phe Lys Arg Asp Leu Gly Trp Lys Trp
 20 25 30

Ile His Glu Pro Lys Gly Tyr Asn Ala Asn Phe Cys Ala Gly Ala Cys
 35 40 45

Pro Tyr Leu Trp Ser Ser Asp Thr Gln His Ser Arg
 50 55 60

<210> 124

<211> 60

<212> PRT

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<400> 124

Ala Leu Asp Thr Asn Tyr Cys Phe Arg Asn Leu Glu Glu Asn Cys Cys
 1 5 10 15

Val Arg Pro Leu Tyr Ile Asp Phe Arg Gln Asp Leu Gly Trp Lys Trp
 20 25 30

Val His Glu Pro Lys Gly Tyr Tyr Ala Asn Phe Cys Ser Gly Pro Cys
 35 40 45

Pro Tyr Leu Arg Ser Ala Asp Thr Thr His Ser Thr
 50 55 60

<210> 125

<211> 52

<212> PRT

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 Sequence

<400> 125

Val Leu Ala Leu Tyr Asn Gln His Asn Pro Gly Ala Ser Ala Ala Pro
1 5 10 15

Cys Cys Val Pro Gln Ala Leu Glu Pro Leu Pro Ile Val Tyr Tyr Val
20 25 30

Gly Arg Lys Pro Lys Val Glu Gln Leu Ser Asn Met Ile Val Arg Ser
35 40 45

Cys Lys Cys Ser
50

<210> 126

<211> 52

<212> PRT

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Sequence

<400> 126

Val Leu Ser Leu Tyr Asn Thr Ile Asn Pro Glu Ala Ser Ala Ser Pro
1 5 10 15

Cys Cys Val Ser Gln Asp Leu Glu Pro Leu Thr Ile Leu Tyr Tyr Ile
20 25 30

Gly Lys Thr Pro Lys Ile Glu Gln Leu Ser Asn Met Ile Val Lys Ser
35 40 45

Cys Lys Cys Ser
50

<210> 127

<211> 52

<212> PRT

<213> Artificial Sequence

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Sequence

<400> 127

Val Leu Gly Leu Tyr Asn Thr Leu Asn Pro Glu Ala Ser Ala Ser Pro

1 5 10 15
Cys Cys Val Pro Gln Asp Leu Glu Pro Leu Thr Ile Leu Tyr Tyr Val
20 25 30
Gly Arg Thr Pro Lys Val Glu Gln Leu Ser Asn Met Val Val Lys Ser
35 40 45
Cys Lys Cys Ser
50

<210> 128
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<223> All pyrimidines are 2'F.

<400> 128
ggaaguaacg uuguaguaaa auucguucuc ucggcauuug gccagacgac ucgcccga 58

<210> 129
<211> 57
<212> RNA
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<220>
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Sequence

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<222> (1)..(57)
<223> All pyrimidines are 2'F.

<400> 129
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<210> 130
<211> 44

<212> RNA
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<220>
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Sequence

<220>
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<222> (1)..(44)
<223> All pyrimidines are 2'F.

<400> 130
ggaaguaacg uuguaguaaa auucguucuc ucggcauuug gccca

44

<210> 131
<211> 38
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<220>
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Sequence

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<222> (1)..(38)
<223> All pyrimidines are 2'F.

<400> 131
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38

<210> 132
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Sequence

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<223> All pyrimidines are 2'F.

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35

<210> 133
<211> 32
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Sequence

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<223> All pyrimidines are 2'F.

<400> 133
gggagggaugc ggaaguaacg uuguaguaaa au 32

<210> 134
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<220>
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Sequence

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<223> All pyrimidines are 2'F.

<400> 134
gggagggaugc ggaaguaacg uuguaguucc uuc 33

<210> 135
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<220>
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Sequence

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<223> All pyrimidines are 2'F.

<400> 135
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<210> 136
<211> 20
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<220>
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Sequence

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<223> All pyrimidines are 2'F.

<400> 136
gggaggagua acguuguagu 20

<210> 137
<211> 58
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<220>
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Sequence

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<222> (1)..(58)
<223> All pyrimidines are 2'F.

<400> 137
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<210> 138
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<220>
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Sequence

<220>

<221> modified_base

<222> (1)..(57)

<223> All pyrimidines are 2'F.

<400> 138

gggaggacga ugcggcguug uuagucgua uguauauacu aaguccgcuu gucccca 57

<210> 139

<211> 44

<212> RNA

<213> Artificial Sequence

<220>

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Sequence

<220>

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<222> (1)..(44)

<223> All pyrimidines are 2'F.

<400> 139

ggcguuguuu agucguaugu auauacuaag uccgcuuguc ccca 44

<210> 140

<211> 44

<212> RNA

<213> Artificial Sequence

<220>

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Sequence

<220>

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<222> (1)..(44)

<223> All pyrimidines are 2'F.

<400> 140

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<210> 141

<211> 29

<212> RNA

<213> Artificial Sequence

<220>

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Sequence

<220>

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<222> (1)..(29)

<223> All pyrimidines are 2'F.

<400> 141

ggggagcggc guuguugaaa aguccgcuu

29

<210> 142

<211> 38

<212> RNA

<213> Artificial Sequence

<220>

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Sequence

<220>

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<222> (1)..(38)

<223> All pyrimidines are 2'F.

<400> 142

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38

<210> 143

<211> 33

<212> RNA

<213> Artificial Sequence

<220>

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Sequence

<220>

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<222> (1)..(33)

<223> All pyrimidines are 2'F.

<400> 143

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33

<210> 144

<211> 42

<212> RNA

<213> Artificial Sequence

<220>

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<220>

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<222> (1)..(42)

<223> All pyrimidines are 2'F.

<400> 144

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<210> 145

<211> 38

<212> RNA

<213> Artificial Sequence

<220>

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<222> (1)..(38)

<223> All pyrimidines are 2'F.

<400> 145

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<210> 146

<211> 65

<212> RNA

<213> Artificial Sequence

<220>

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<222> (1)..(65)

<223> All pyrimidines are 2'F.

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cccga 65

<210> 147
<211> 64
<212> RNA
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<220>
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Sequence

<220>
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<222> (1)..(64)
<223> All pyrimidines are 2'F.

<400> 147
gggaggacga ugcggaggcg uuauuagaga gucuguauag cucuagcccc agacgacucg 60
ccga 64

<210> 148
<211> 65
<212> RNA
<213> Artificial Sequence

<220>
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Sequence

<220>
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<223> All pyrimidines are 2'F.

<400> 148
gggaggacga ugcggggagg guauuacaga guauguauag cuguacuccc agacgacucg 60
cccga 65

<210> 149
<211> 65
<212> RNA
<213> Artificial Sequence

<220>
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Sequence

<220>
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<222> (1)..(65)

<223> All pyrimidines are 2'F.

<400> 149

gggaggacga ugcggggagg uuauuauaga gucuguauag cuauaccccc agacgacucg 60
cccga 65

<210> 150

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<212> RNA

<213> Artificial Sequence

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Sequence

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<223> All pyrimidines are 2'F.

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cccga 65

<210> 151

<211> 65

<212> RNA

<213> Artificial Sequence

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Sequence

<220>

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<222> (1)..(65)

<223> All pyrimidines are 2'F.

<400> 151

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cccga 65

<210> 152

<211> 65

<212> RNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Sequence

<220>

<221> modified_base

<222> (1)..(65)

<223> All pyrimidines are 2'F.

<400> 152

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cccga 65

<210> 153

<211> 65

<212> RNA

<213> Artificial Sequence

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<220>

<221> modified_base

<222> (1)..(65)

<223> All pyrimidines are 2'F.

<400> 153

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cccga 65

<210> 154

<211> 65

<212> RNA

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<222> (1)..(65)

<223> All pyrimidines are 2'F.

<400> 154

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cccga 65

<210> 155
<211> 65
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Sequence

<220>
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<222> (1)..(65)
<223> All pyrimidines are 2'F.

<400> 155
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cccgga 65

<210> 156
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Sequence

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<223> All pyrimidines are 2'F.

<400> 156
gggaggacga ugcggggugga auauuacgga gucuguauag ccguacucucc agacgacucg 60
cccgga 65

<210> 157
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Sequence

<220>
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<222> (1)..(65)

<223> All pyrimidines are 2'F.

<400> 157

gggaggacga ugcgggggga cuauuaguga gucuguauag cacuaccccc agacgacucg 60
cccga 65

<210> 158

<211> 65

<212> RNA

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Sequence

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<222> (1)..(65)

<223> All pyrimidines are 2'F.

<400> 158

gggaggacga ugcgggggga uuauuacagc gucuguauau cuguaccccc agacgacucg 60
cccga 65

<210> 159

<211> 65

<212> RNA

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<223> All pyrimidines are 2'F.

<400> 159

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cccga 65

<210> 160

<211> 65

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<222> (1)..(65)

<223> All pyrimidines are 2'F.

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cccgga 65

<210> 161

<211> 65

<212> RNA

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<222> (1)..(65)

<223> All pyrimidines are 2'F.

<400> 161

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cccgga 65

<210> 162

<211> 65

<212> RNA

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<222> (1)..(65)

<223> All pyrimidines are 2'F.

<400> 162

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cccgga 65

<210> 163
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<223> All pyrimidines are 2'F.

<400> 163
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cccga 65

<210> 164
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<223> All pyrimidines are 2'F.

<400> 164
gggaggacga ugcgggggug uuauuacaca guauguauag guguaccccc agacgacucg 60
cccga 65

<210> 165
<211> 65
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<223> All pyrimidines are 2'F.

<400> 165

gggaggacga ugcggaggga aaauuacaga guauguauag cuguaccccc agacgacucg 60
cccga 65

<210> 166

<211> 65

<212> RNA

<213> Artificial Sequence

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<222> (1)..(65)

<223> All pyrimidines are 2'F.

<400> 166

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cccga 65

<210> 167

<211> 65

<212> RNA

<213> Artificial Sequence

<220>

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Sequence

<220>

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<222> (1)..(65)

<223> All pyrimidines are 2'F.

<400> 167

gggaggacga ugcggugagg aaauuacaga gucuguauag cuguacuccc agacgacucg 60
cccga 65

<210> 168

<211> 65

<212> RNA

<213> Artificial Sequence

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<222> (1)..(65)

<223> All pyrimidines are 2'F.

<400> 168

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cccga 65

<210> 169

<211> 65

<212> RNA

<213> Artificial Sequence

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<222> (1)..(65)

<223> All pyrimidines are 2'F.

<400> 169

gggaggacga ugcgggggga guauuaaaga gucuguauag cuuuaccccc agacgacucg 60
cccga 65

<210> 170

<211> 65

<212> RNA

<213> Artificial Sequence

<220>

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<220>

<221> modified_base

<222> (1)..(65)

<223> All pyrimidines are 2'F.

<400> 170

gggaggacga ugcggggagg auauuauaga gucuguauag cuauaccccc agacgacucg 60
cccga 65

<210> 171
<211> 34
<212> RNA
<213> Artificial Sequence

<220>
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Sequence

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<222> (1)..(34)
<223> All pyrimidines are 2'F; a's and g's at positions
1-5, 8, 11, 13-16, 20, 22, 24-25, 28 and 30 are
2'-OCH₃; linkage at positions 34 and 35 is 3'-3'.

<400> 171
ggagguuauu acagagucug uauagcugua cucc

34

<210> 172
<211> 34
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
Sequence

<220>
<221> modified_base
<222> (1)..(34)
<223> All pyrimidines are 2'F; a's and g's at positions
11, 13-16, 20, 22, 24-25, 28 and 30 are 2'OCH₃;
linkage at positions 34 and 35 is 3'-3'.

<400> 172
ggagguuauu acagagucug uauagcugua cucc

34

<210> 173
<211> 34
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
Sequence

<220>

<221> modified_base
<222> (1)..(34)
<223> All pyrimidines are 2'F; a's and g's at positions
1-4 are 2'OCH3; linkage at positions 34 and 35 is
3'-3'.

<400> 173
ggagguuauu acagagucug uauagcugua cucc 34

<210> 174
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<212> RNA
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<220>
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Sequence

<220>
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<222> (1)..(34)
<223> All pyrimidines are 2'F; a's and g's at positions
5, 8, and 11 are 2'OCH3; linkage at positions 34
and 35 is 3'-3'.

<400> 174
ggagguuauu acagagucug uauagcugua cucc 34

<210> 175
<211> 34
<212> RNA
<213> Artificial Sequence

<220>
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Sequence

<220>
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<222> (1)..(34)
<223> All pyrimidines are 2'F; a' and g's at positions
13-16 are 2'-OCH3; linkage at positions 34 and 35
is 3'-3'.

<400> 175
ggagguuauu acagagucug uauagcugua cucc 34

<210> 176

<211> 34
<212> RNA
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
Sequence

<220>

<221> modified_base

<222> (1)..(34)

<223> All pyrimidines are 2'F; a's and g's at positions
20, 22 and 24 are 2'-OCH₃; linkage at positions 34
and 35 is 3'-3'.

<400> 176

ggagguuauu acagagucug uauagcugua cucc

34

<210> 177

<211> 34

<212> RNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
Sequence

<220>

<221> modified_base

<222> (1)..(34)

<223> All pyrimidines are 2'F; a's and g's at positions
25, 28 and 30 are 2'-OCH₃; linkage at positions 34
and 35 is 3'-3'.

<400> 177

ggagguuauu acagagucug uauagcugua cucc

34

<210> 178

<211> 34

<212> RNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
Sequence

<220>

<221> modified_base

<222> (1)..(34)

<223> All pyrimidines are 2'F; g at position 20 is
2'-OCH₃; linkage at positions 34 and 35 is 3'-3'.

<400> 178

ggagguuauu acagagucug uauagcugua cucc

34

<210> 179

<211> 34

<212> RNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
Sequence

<220>

<221> modified_base

<222> (1)..(34)

<223> All pyrimidines are 2'F; a at position 22 is
2'-OCH₃; linkage at positions 34 and 35 is 3'-3'.

<400> 179

ggagguuauu acagagucug uauagcugua cucc

34

<210> 180

<211> 34

<212> RNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
Sequence

<220>

<221> modified_base

<222> (1)..(34)

<223> All pyrimidines are 2'F; a at position 24 is
2'-OCH₃; linkage at positions 34 and 35 is 3'-3'.

<400> 180

ggagguuauu acagagucug uauagcugua cucc

34

<210> 181

<211> 34

<212> RNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Sequence

<220>

<221> modified_base

<222> (1)..(34)

<223> All pyrimidines are 2'F; a's and g's at positions 1-5, 8, 11, 25 and 30 are 2'-OCH₃; linkage at positions 34 and 35 is 3'-3'.

<400> 181

ggagguuauu acagagucug uauagcugua cucc

34

<210> 182

<211> 34

<212> RNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Sequence

<220>

<221> modified_base

<222> (1)..(34)

<223> All pyrimidines are 2'F; a's and g's at positions 1-5, 8, 11, 13-16, 24-25, 28 and 30 are 2'-OCH₃; linkage at positions 34 and 35 is 3'-3'.

<400> 182

ggagguuauu acagagucug uauagcugua cucc

34

<210> 183

<211> 34

<212> RNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Sequence

<220>

<221> modified_base

<222> (1)..(34)

<223> All pyrimidines are 2'F; a's and g's at positions 1-5, 8, 11, 13-16, 20, 24-25, 28 and 30 are 2'-OCH₃; linkage at positions 34 and 35 is 3'-3'.

<400> 183
ggagguuauu acagagucug uauagcugua cucc 34

<210> 184
<211> 34
<212> RNA
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<220>
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Sequence

<220>
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<222> (1)..(34)
<223> All pyrimidines are 2'F; a's and g's at positions
1-5, 8, 11, 13-16, 25, 28 and 30 are 2'-OCH₃;
linkage at positions 34 and 35 is 3'-3'.

<400> 184
ggagguuauu acagagucug uauagcugua cucc 34

<210> 185
<211> 34
<212> RNA
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<220>
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Sequence

<220>
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<222> (1)..(34)
<223> All pyrimidines are 2'F; a's and g's at positions
1-5, 11, 13-16, 25, 28, and 30 are 2'-OCH₃;
linkage at positions 34 and 35 is 3'-3'.

<400> 185
ggagguuauu acagagucug uauagcugua cucc 34

<210> 186
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<212> RNA
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<220>

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<221> modified_base

<222> (1)..(34)

<223> All pyrimidines are 2'F; a's and g's at positions 1-4, 13-16, 25, 28 and 30 are 2'-OCH₃; linkage at positions 34 and 35 is 3'-3'.

<400> 186

ggagguuauu acagagucug uauagcugua cucc

34

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<211> 33

<212> RNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Sequence

<220>

<221> modified_base

<222> (1)..(33)

<223> All pyrimidines are 2'F; a's and g's at positions 1-5, 10, 12-15 24, 27 and 29 are 2'-OCH₃; linkage at positions 33 and 34 is 3'-3'.

<400> 187

ggagauauua cagagucugu auagcuguac ucc

33

<210> 188

<211> 32

<212> RNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Sequence

<220>

<221> modified_base

<222> (1)..(32)

<223> All pyrimidines are 2'F; a's and g's at positions 1-4, 10, 12-15, 24, 27 and 29 are 2'-OCH₃; linkage at positions 32 and 33 is 3'-3'.

<400> 188
gggguuauua cagagucugu auagcuguac cc 32

<210> 189
<211> 34
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
Sequence

<220>
<221> modified_base
<222> (1)..(34)
<223> All pyrimidines are 2'F; linkage at positions 34
and 35 is 3'-3'.

<400> 189
ugugaauauu agagagucug uauagcucua cccc 34

<210> 190
<211> 34
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
Sequence

<220>
<221> modified_base
<222> (1)..(34)
<223> All pyrimidines are 2'F; a's and g's at positions
2, 4-5, 8, 11, 13-16, 24-25 and 30 are 2'-OCH₃;
linkage at positons 34 and 35 is 3'-3'.

<400> 190
ugugaauauu agagagucug uauagcucua cccc 34

<210> 191
<211> 34
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
Sequence

<220>

<221> modified_base

<222> (1)..(34)

<223> All pyrimidines are 2'F; a's and g's at positions
2, 4-6, 8, 11-16, 20, 24-25, and 30 are 2'-OCH₃;
linkage at positions 34 and 35 is 3'-3'.

<400> 191

ugugaauauu agagagucug uauagcucua cccc

34

<210> 192

<211> 34

<212> RNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
Sequence

<220>

<221> modified_base

<222> (1)..(34)

<223> All pyrimidines are 2'F; a's and g's at positions
2, 4, 11, 13-16, 25 and 30 are 2'-OCH₃; linkage at
positions 34 and 35 is 3'-3'.

<400> 192

ugugaauauu agagagucug uauagcucua cccc

34

<210> 193

<211> 34

<212> RNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
Sequence

<220>

<221> modified_base

<222> (1)..(34)

<223> All pyrimidines are 2'F; a's and g's at positions
2, 4-6, 11-16, 25 and 30 are 2'-OCH₃; linkage at
positions 34 and 35 is 3'-3'.

<400> 193

ugugaauauu agagagucug uauagcucua cccc

34

<210> 194
<211> 42
<212> RNA
<213> Artificial Sequence

<220>
<221> modified_base
<222> (1)..(42)
<223> A's and g's at positions 1-3 and 5 are 2'-OMe.

<220>
<223> Description of Artificial Sequence: Synthetic
Sequence

<400> 194
gggugccuuu ugccuagguu gugauuugua accuucugcc ca 42

<210> 195
<211> 42
<212> RNA
<213> Artificial Sequence

<220>
<221> modified_base
<222> (1)..(42)
<223> A's and g's at positions 12 and 16-18 are 2'OMe.

<220>
<223> Description of Artificial Sequence: Synthetic
Sequence

<400> 195
gggugccuuu ugccuagguu gugauuugua accuucugcc ca 42

<210> 196
<211> 42
<212> RNA
<213> Artificial Sequence

<220>
<221> modified_base
<222> (1)..(42)
<223> A's and g's at positions 21, 23-24 and 28 are
2'-OMe.

<220>
<223> Description of Artificial Sequence: Synthetic

Sequence

<400> 196
gggugccuuu ugccuagguu gugauuugua accuucugcc ca 42

<210> 197
<211> 42
<212> RNA
<213> Artificial Sequence

<220>
<221> modified_base
<222> (1)..(42)
<223> A's and g's at positions 30-31, 38 and 42 are
2'-OMe.

<220>
<223> Description of Artificial Sequence: Synthetic
Sequence

<400> 197
gggugccuuu ugccuagguu gugauuugua accuucugcc ca 42

<210> 198
<211> 42
<212> RNA
<213> Artificial Sequence

<220>
<221> modified_base
<222> (1)..(42)
<223> A's and g's at positions 1, 21, 23-24 and 28 are
2'-OMe.

<220>
<223> Description of Artificial Sequence: Synthetic
Sequence

<400> 198
gggugccuuu ugccuagguu gugauuugua accuucugcc ca 42

<210> 199
<211> 42
<212> RNA
<213> Artificial Sequence

<220>
<221> modified_base

<222> (1)..(42)

<223> A's and g's at positions 2, 21, 23-24 and 28 are
2'-OMe.

<220>

<223> Description of Artificial Sequence: Synthetic
Sequence

<400> 199

gggugccuuu ugccuagguu gugauuugua accuucugcc ca

42

<210> 200

<211> 42

<212> RNA

<213> Artificial Sequence

<220>

<221> modified_base

<222> (1)..(42)

<223> A's and g's at positions 3, 21, 23-24 and 28 are
2'-OMe.

<220>

<223> Description of Artificial Sequence: Synthetic
Sequence

<400> 200

gggugccuuu ugccuagguu gugauuugua accuucugcc ca

42

<210> 201

<211> 42

<212> RNA

<213> Artificial Sequence

<220>

<221> modified_base

<222> (1)..(42)

<223> A's and g's at positions 5, 21, 23-24 and 28 are
2'-OMe.

<220>

<223> Description of Artificial Sequence: Synthetic
Sequence

<400> 201

gggugccuuu ugccuagguu gugauuugua accuucugcc ca

42

<210> 202

<211> 42
<212> RNA
<213> Artificial Sequence

<220>
<221> modified_base
<222> (1)..(42)
<223> A's and g's at positions 12, 21, 23-24 and 28 are
2'-OMe.

<220>
<223> Description of Artificial Sequence: Synthetic
Sequence

<400> 202
gggugccuuu ugccuagguu gugauuugua accuucugcc ca 42

<210> 203
<211> 42
<212> RNA
<213> Artificial Sequence

<220>
<221> modified_base
<222> (1)..(42)
<223> A's and g's at positions 16, 21, 23-24 and 28 are
2'-OMe.

<220>
<223> Description of Artificial Sequence: Synthetic
Sequence

<400> 203
gggugccuuu ugccuagguu gugauuugua accuucugcc ca 42

<210> 204
<211> 42
<212> RNA
<213> Artificial Sequence

<220>
<221> modified_base
<222> (1)..(42)
<223> A's and g's at positions 17, 21, 23-24 and 28 are
2'-OMe.

<220>
<223> Description of Artificial Sequence: Synthetic

Sequence

<400> 204
gggugccuuu ugccuagguu gugauuugua accuucugcc ca 42

<210> 205
<211> 42
<212> RNA
<213> Artificial Sequence

<220>
<221> modified_base
<222> (1)..(42)
<223> A's and g's at positions 18, 21, 23-24, and 28 are
2'-OMe.

<220>
<223> Description of Artificial Sequence: Synthetic
Sequence

<400> 205
gggugccuuu ugccuagguu gugauuugua accuucugcc ca 42

<210> 206
<211> 42
<212> RNA
<213> Artificial Sequence

<220>
<221> modified_base
<222> (1)..(42)
<223> A's and g's at positions 21, 23-24, 28 and 30 are
2'-OMe.

<220>
<223> Description of Artificial Sequence: Synthetic
Sequence

<400> 206
gggugccuuu ugccuagguu gugauuugua accuucugcc ca 42

<210> 207
<211> 42
<212> RNA
<213> Artificial Sequence

<220>
<221> modified_base

<222> (1)..(42)

<223> A's and g's at positions 21, 23-24, 28 and 31 are
2'-OMe.

<220>

<223> Description of Artificial Sequence: Synthetic
Sequence

<400> 207

gggugccuuu ugccuagguu gugauuugua accuucugcc ca 42

<210> 208

<211> 42

<212> RNA

<213> Artificial Sequence

<220>

<221> modified_base

<222> (1)..(42)

<223> A's and g's at positions 21, 23-24, 28 and 38 are
2'-OMe.

<220>

<223> Description of Artificial Sequence: Synthetic
Sequence

<400> 208

gggugccuuu ugccuagguu gugauuugua accuucugcc ca 42

<210> 209

<211> 42

<212> RNA

<213> Artificial Sequence

<220>

<221> modified_base

<222> (1)..(42)

<223> A's and g's at positions 21, 23-24, 28 and 42 are
2'-OMe.

<220>

<223> Description of Artificial Sequence: Synthetic
Sequence

<400> 209

gggugccuuu ugccuagguu gugauuugua accuucugcc ca 42

<210> 210

<211> 42
<212> RNA
<213> Artificial Sequence

<220>
<221> modified_base
<222> (1)..(42)
<223> A's and g's at positions 1-3, 16-18, 21, 23-24,
28, 30-31 and 42 are 2'-OMe; linkage at positions
42 and 43 is 3'-3'.

<220>
<223> Description of Artificial Sequence: Synthetic
Sequence

<400> 210
gggugccuuu ugccuagguu gugauuugua accuucugcc ca 42

<210> 211
<211> 42
<212> RNA
<213> Artificial Sequence

<220>
<221> modified_base
<222> (1)..(42)
<223> A's and g's at positions 1-3, 16-18, 21, 23-24,
28, 30 and 42 are 2'-OMe; linkage at positions 42
and 43 is 3'-3'.

<220>
<223> Description of Artificial Sequence: Synthetic
Sequence

<400> 211
gggugccuuu ugccuagguu gugauuugua accuucugcc ca 42

<210> 212
<211> 41
<212> RNA
<213> Artificial Sequence

<220>
<221> modified_base
<222> (1)..(41)
<223> A's and g's at positions 1-3, 16-18, 21, 23-24, 28
and 30-31 are 2'-OMe; linkage at positions 41 and
42 are 3'-3'.

<220>

<223> Description of Artificial Sequence: Synthetic Sequence

<400> 212

gggugccuuu ugccuagguu gugauuugua accuucugcc c

41

<210> 213

<211> 37

<212> RNA

<213> Artificial Sequence

<220>

<221> modified_base

<222> (1)..(37)

<223> A's and g's at positions 1-3, 16-18, 21, 23, 25-26 and 37 are 2'-OMe; linkage at positions 37 and 38 is 3'-3'.

<220>

<223> Description of Artificial Sequence: Synthetic Sequence

<400> 213

gggugccuuu ugccuagguu guguaaccuu cugccca

37

<210> 214

<211> 35

<212> RNA

<213> Artificial Sequence

<220>

<221> modified_base

<222> (1)..(35)

<223> A's and g's at positions 1-3, 16-18, 21, 23-24 and 35 are 2'-OMe; linkage at positions 35 and 36 is 3'-3'.

<220>

<223> Description of Artificial Sequence: Synthetic Sequence

<400> 214

gggugccuuu ugccuagguu guaaccuucu gccca

35

<210> 215

<211> 33

<212> RNA

<213> Artificial Sequence

<220>

<221> modified_base

<222> (1)..(33)

<223> A's and g's at positions 1-3, 16-18, 21-22, and 33
are 2'-OMe; linkage at positions 33 and 34 is
3'-3'.

<220>

<223> Description of Artificial Sequence: Synthetic
Sequence

<400> 215

gggugccuuu ugccuagguu aaccuucugc cca

33

<210> 216

<211> 42

<212> RNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
Sequence

<400> 216

gggugccuuu ugccuagguu gugauuugua accuucugcc ca

42